



## METHOD AND APPARATUS FOR PROVIDING HIGH QUALITY TRANSMISSION IN A TELECOMMUNICATIONS SYSTEM

### Abstract

A mobile radio telecommunications system is described in which the same user message is transmitted with forward error correction (FEC) codes on three separate channels to a receiver. The FEC codes for the three signals are different, e.g. different bits are punctured in the first signal compared with the second signal and so on. The receiver includes a plurality of data receivers for extracting the receiver signals as well as a forward error correction decoder for substantially simultaneously decoding the differently forward error correction coded signals. The extracted decoded signals can be used individually or combined in a variety of ways to improve reception.